

Notice of Allowability

Application No.

09/841,777

Examiner

Baoquoc N To

Applicant(s)

PENG, LUOSHENG

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/22/04.
2. ☒ The allowed claim(s) is/are 1-2, 4-20 and 22-36.
3. ☒ The drawings filed on 04 April 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 02/17/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

Request for Continued Examination

1. The request filed on 11/22/2004 for a Request For Continued Examination (RCE) under 37 CFR 1.53(d) based on parent Application No. 09/841777 is acceptable and a RCE has been established. An action on the RCE follows.
2. Claims 1 and 19 are amended in the amendment filed on 11/22/2004 and claims 1-36 are pending in this application.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Roxana H. Yang Reg. No. 46,788 on 02/11/05 and 02/14/05.

Please amend the application as follow:

In claim 1, please replace claim 1 with;--"1. A computer implemented method for intelligently caching applications and data on a gateway, comprising the steps of:
calculating a cache benefit index for a set of files, said cache benefit index;
being calculated based at least on the frequency of updates of said set of files at said gateway, and

indicating a total benefit for caching said set of files;

determining whether to cache said set of files on a local file system based on said cache benefit index, wherein said determining includes the steps of: comparing said cache benefit index to previously calculated cache benefit index for said set of files, and allowing caching of said set of files if said cache benefit index is higher than said previously calculated cache index;

caching said set of files on said local file system; and

updating a set of tables in a gateway database based on said caching.”—

Please delete claim [3].

In claim 19, please replace claim 19 with;--“19. A computer program product for use in conjunction with a computer system for intelligently caching applications and data on a gateway, comprising:

logic code for calculating a cache benefit index for a set of files, said cache benefit index;

being calculated based at least on the frequency of updates of said set of files at said gateway, and

indicating a total benefit for caching said set of files;

logic code for determining whether to cache said set of files on a local file system based on said cache benefit index, wherein said logic code for determining includes: logic code for comparing said cache benefit index to a previously calculated cache benefit index for said set of files, and logic code for allowing caching of said set of

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files if said cache benefit index is higher than said previously calculated cache benefit index.;

logic code for caching said set of files on said local file system; and

logic code for updating a set of tables in a gateway database based on said

caching."--

Please delete claim [22].

Allowable Subject Matter

4. Claims 1-2, 4-20 and 22-36 are allowed over prior art made of records.

The following is a statement of reasons for the indication of allowable subject matter:

In claim 1, none prior arts alone or combination neither teach nor suggest "calculating a cache benefit index for a set of files, said cache benefit index; being calculated based at least on the frequency of updates of said set of files at said gateway, and indicating a total benefit for caching said set of files; determining whether to cache said set of files on a local file system based on said cache benefit index, wherein said determining includes the steps of: comparing said cache benefit index to previously calculated cache benefit index for said set of files, and allowing caching of said set of files if said cache benefit index is higher than said previously calculated cache index;" and in conjunction with "caching said set of files on said local file system; and updating a set of tables in a gateway database based on said caching."

Claims 2, and 4-18 are depended on claim 1; therefore, they are allowed under the same reason.

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Claim 19 is a computer program product, which perform the method of claim 1, therefore, it is allowed under the same reason as claim 1.

Claims 20 and 22-36 are depended on claim 19; therefore, they are allowed under the same reason.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sasa Hideaki (JP publication No. 2000-029765).

Sasa discloses web caching method, the content updating frequency at a WEB server 20 and the reading frequency at a WEB client 10 are analyzed to decide the keeping period and the arrange place of cache data according to the analyzing result, and contents, which is read frequently at web client and frequently updated at the WEB server are stored on the memory of the WEB client, without storing in cache areas 12, 14 on a disk by the WEB client.

Lamparter (US. Patent No. 6,421,713 B1) Patent date: 07/16/2002.

Adrangi (US. Patent No. 6,651,141 B2) Patent date: 11/18/2003.

NPL

Serpanos et al. Effective caching of Web Objects using Jipf's law, date: July 30 to August 02, 2000, pages 727-730, Vo. 2.

Michael et al. A caching file system for a programmer's workstation, (ACM Symposium on Operating System principles, 1985, pages 25-34.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Baoquoc N. To
Feb 17th, 2005


JEAN M. CORRIELLUS
PRIMARY EXAMINER